



## **NORTH CAROLINA**

Department of Transportation



# **Joint Legislative Transportation Oversight Committee**

## **March 8, 2017**

Ronnie Keeter, PE • Division 4 Engineer



# Outline

Introduction

Overview

Capital Program – Pre-Construction & Design

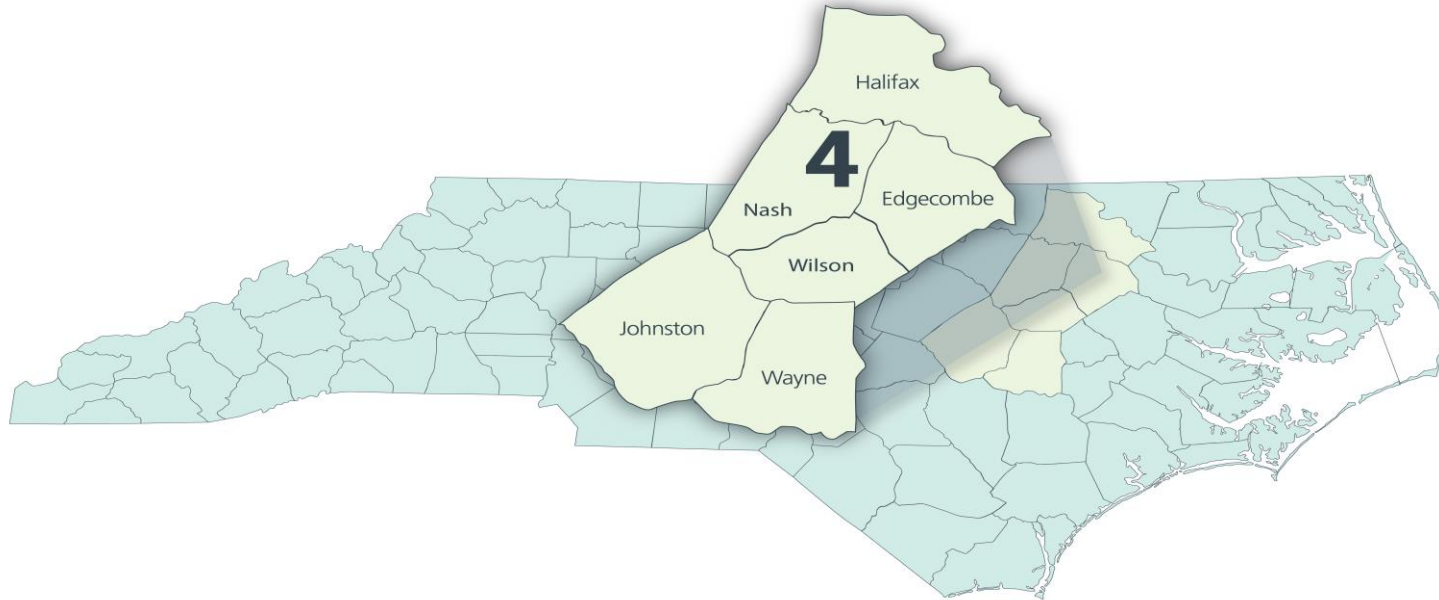
Capital Program – Construction

Maintenance Program

Division Challenges

Summary – Key to Success

# Overview – Division 4



- Population: 596,109
- Road miles: 6,838
- Bridges: 1,305
- Permanent and temporary employees: 430

# Major Industries and Schools





## Capital Program

# Local Coordination

- Close Coordination with MPO(s) & RPO(s) on STI
- Close coordination and communication with planning partners improves project scoping details
  - Cost estimates
  - Project limits/segments
  - Well defined project improvement benefits
- Added by NCGA - Division corridor Planning Engineers enhances coordination
- Regionally based (and central report)



***Strong relationships with local leaders better address project needs***

## Capital Program Pre-Construction

Capital program delivery responsibilities: **\$1 Billion over 10 Years**



57 STIP projects



46 bridge projects



70 smaller projects

### Upcoming and significant projects



I-95 and Sunset Avenue  
New interchange project



US 70 (interstate)  
3 upgrade projects



I-95 and US 70 Bus, US 701, NC 4  
3 interchange replacements

### Personnel

- NCDOT Personnel: 9
- Embedded Consultants: 2
- Prime Consultants: 20

## Capital Program Construction



24 Roadway projects



12 Bridge projects

### Significant projects under construction:



I-95 Rehab/Bridge Replacements (TIP I-5786)  
Project Cost: \$53 million



I-95 Little River Bridges (TIP I-3318BB)  
Project Cost: \$13 million



US 301 Widening/Sunset Ave Bridge/Stoney Creek  
Bridge in Rocky Mount (TIP U-3330)  
Project Cost: \$28M



US 117 Interchanges (TIP R-5719/U-5796)  
Project Cost: \$21M

### Personnel

#### *NCDOT:*

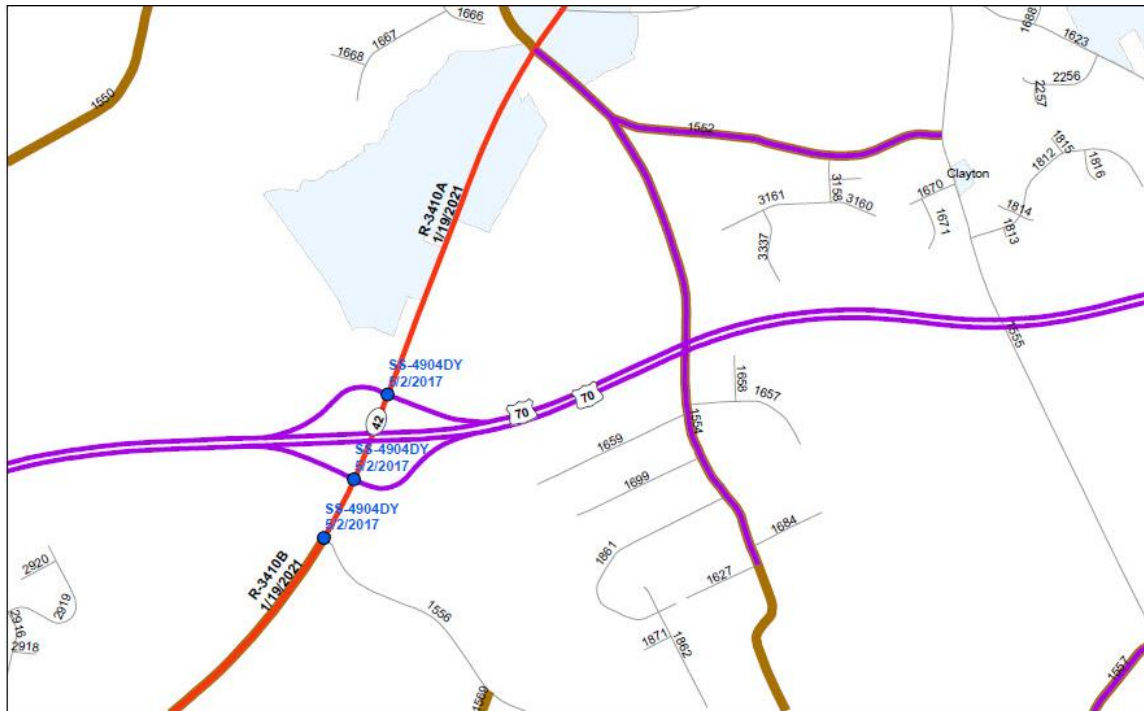
- Engineers: 6
- Inspectors: 39

#### *CEI:*

- Engineers: 13
- Inspectors: 43

# Maintenance Programs

- Resurfacing & Pavement Preservation (“HMIP”)
- Roadside/Maintenance/Traffic/Bridge (“RMIP”)
- Bridge Program (“BMIP”)



## Legend

- Upcoming Projects
- Upcoming Projects
- Resurfacing 2018
- RMIP Dynamic Plan 2018



## Maintenance Program

# RMIP and HMIP Program Delivery

### HMIP Underway 2017-2018

Routes Resurfaced	473 lane miles
Routes AST	390 lanes miles
Routes Crack Sealed	351 lane miles



### RMIP Underway 2017-2018

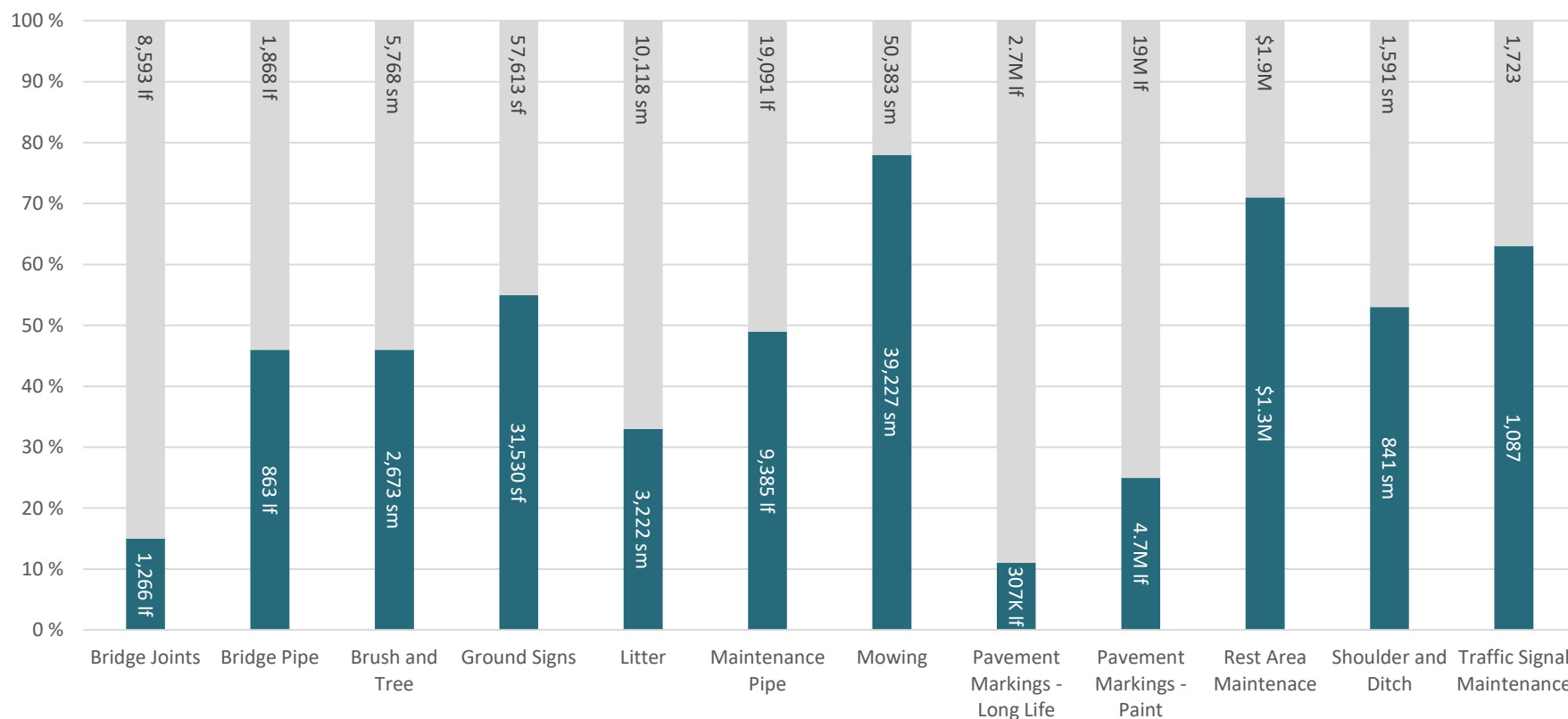
Shoulder Work	1,591 shoulder miles
Culverts Replaced	19,091 linear feet
Signs Replaced	22,877 signs
Pavement Markings	21,773,264 linear feet
Tree Line	2,546 shoulder miles

#### Personnel

- NCDOT: 351
- Contractors: 41

# Maintenance Program

## Division 4 RMIP Progress



## Maintenance Program

# Division Challenges – RMIP, HMIP, BMIP

- Limited number of pavement marking contractors
  - 2-3 contractors doing pavement markings for resurfacing, AST, and retracing pavement markings in RMIP
- Emergency/Disaster Response can delay RMIP, BMIP, HMIP activities
- Coordinating multiple programs along the same routes on the same system
- A detailed long range RMIP is difficult to determine on a large system and varied system
  - Rapidly developing technology to supplement capabilities



## Division Opportunities and Challenges

# Division 4 Opportunities



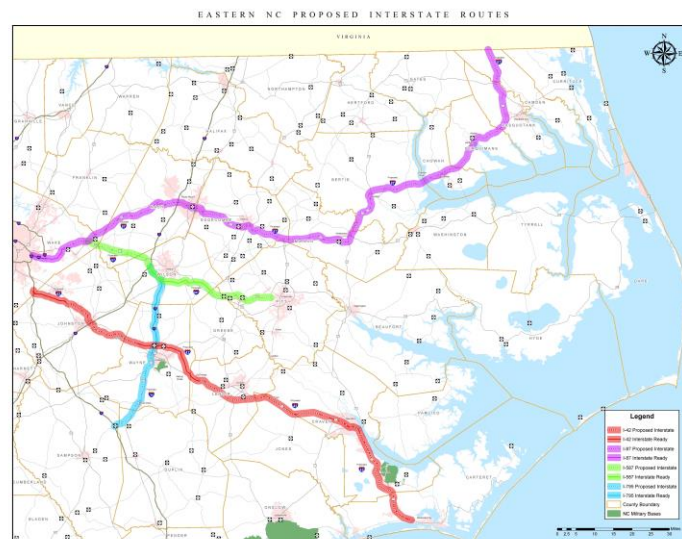
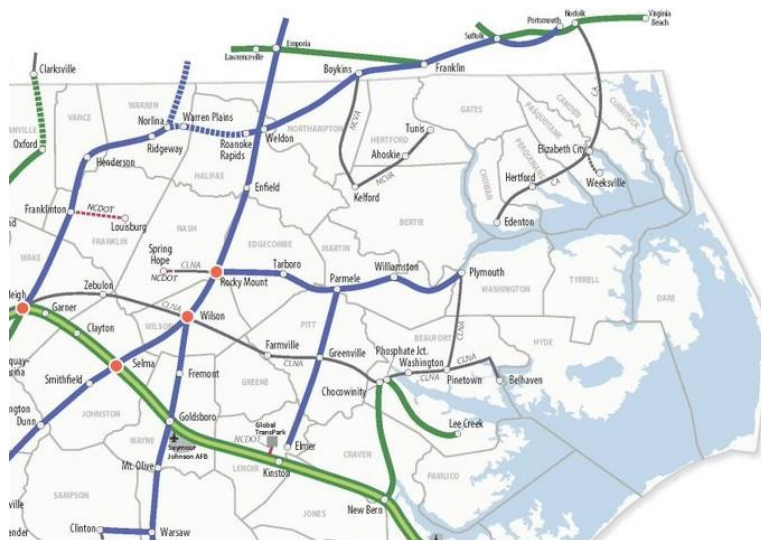
- I-95 is an aging interstate that is reaching capacity with National Significance
- I-95 is known as the Main Street of the East Coast
- I-95 is identified as National Highway Freight Network (most critical portions of US freight system)
- Maintenance and Construction activities must be done as night work to avoid major backups
- Adding lanes and rebuilding does not score well in STI



## Division Opportunities and Challenges

# Division 4 Opportunities

- Other Interstate & Future Interstate Routes include I-87, I-587, I-42 and I-795
- Major north-south railroad
- Uneven growth in the state



***It is important to leverage all transportation to help rural eastern areas of the state***



## Division Opportunities and Challenges

# Other Division 4 Challenges

- Subdivisions that do not meet current standards cannot be added to the state system
  - There is no good alternative
  - Emergency crews have been forced to walk to rescue people because poor roads made vehicle travel impossible



# Summary – Keys to Success

- Project delivery in Division 4
  - Leverage local knowledge and strong relationship to scope good projects
  - Recognize obstacles to delivery and adjust often
- Maintenance and operations
  - Produce detailed strategic plans i.e. RMIP, BMIP and HMIP
  - Deliver plans we create
  - Be accountable
  - Good plans and processes will build a blueprint and assist new CMEs to deliver successful maintenance and operations
- Employee recruitment and retention
  - Recruiting and training the next generation now will ensure that success continues in the future

**Thank you**